

Title (en)  
EFFICIENT ADDRESS ASSIGNMENT IN CODED LIGHTING SYSTEMS

Title (de)  
EFFIZIENTE ADRESSENZUWEISUNG IN CODIERTEN BELEUCHTUNGSSYSTEMEN

Title (fr)  
ATTRIBUTION D'ADRESSE EFFICACE DANS DES SYSTÈMES D'ÉCLAIRAGE CODÉ

Publication  
**EP 2417834 B1 20140723 (EN)**

Application  
**EP 10714083 A 20100401**

Priority  
• IB 2010051420 W 20100401  
• EP 09157573 A 20090408  
• EP 10714083 A 20100401

Abstract (en)  
[origin: WO2010116299A1] Coded light has been proposed to enable advanced control of light sources and transmit information using light sources. It is based on invisibly embedding of data and identifiers in their light output. Methods, devices and systems configured to efficient assignment of addresses in a coded lighting system, still allowing for unique identification, are proposed. More specifically, the assignment of addresses occurs in two phases, where in the initial phase wide area unique addresses are used, while in the second phase only local area unique addresses are used. Also, methods, devices and systems configured to efficiently distribute a set of addresses over a set of light sources in this second phase, to maximize the performance of the illumination contribution estimation, and positioning, are disclosed.

IPC 8 full level  
**H05B 37/02** (2006.01); **H05B 44/00** (2022.01)

CPC (source: EP KR US)  
**H04B 10/116** (2013.01 - US); **H05B 47/175** (2020.01 - EP KR US); **H05B 47/18** (2020.01 - EP KR US); **H05B 47/195** (2020.01 - EP KR US); **H05B 47/199** (2024.01 - EP); **H05B 47/19** (2020.01 - EP KR US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010116299 A1 20101014**; BR PI1006706 A2 20170613; BR PI1006706 A8 20171212; BR PI1006706 B1 20191210; CA 2757938 A1 20101014; CA 2757938 C 20171205; CN 102388677 A 20120321; CN 102388677 B 20170808; EP 2417834 A1 20120215; EP 2417834 B1 20140723; ES 2509222 T3 20141017; JP 2012523660 A 20121004; JP 5591321 B2 20140917; KR 101614000 B1 20160421; KR 20120018760 A 20120305; RU 2011145024 A 20130520; RU 2538102 C2 20150110; US 10090924 B2 20181002; US 10439718 B2 20191008; US 2012091896 A1 20120419; US 2016204859 A1 20160714; US 2018167141 A1 20180614; US 9210776 B2 20151208

DOCDB simple family (application)  
**IB 2010051420 W 20100401**; BR PI1006706 A 20100401; CA 2757938 A 20100401; CN 201080015955 A 20100401; EP 10714083 A 20100401; ES 10714083 T 20100401; JP 2012504112 A 20100401; KR 20117026496 A 20100401; RU 2011145024 A 20100401; US 201013263199 A 20100401; US 201514958279 A 20151203; US 201815892507 A 20180209